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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/069,974	07/09/2002	Holger Rauth	100564-00106	9408
6449	7590 05/05/2005		EXAM	INER
ROTHWELL, FIGG, ERNST & MANBECK, P.C.			MCINTOSH III, TRAVISS C	
1425 K STR	EET, N.W.		ART UNIT	PAPER NUMBER
SUITE 800 WASHINGT	ON, DC 20005		1623	

DATE MAILED: 05/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
,	10/069,974	RAUTH ET AL.
Office Action Summary	Examiner	Art Unit
	Traviss C. McIntosh	1623
The MAILING DATE of this communicatio riod for Reply	n appears on the cover sheet wit	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATION Extensions of time may be available under the provisions of 37 of either SIX (6) MONTHS from the mailing date of this communication if the period for reply specified above, the maximum statutory if NO period for reply is specified above, the maximum statutory if NO period for reply is specified above, the maximum statutory failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earmed pattert turn adjustment. See 37 CFR 1.70612.	ION. FR 1.136(a). In no event, however, may a re- ion. , a reply within the statutory minimum of thirty period will apply and will expire SIX (6) MON.	pply be timely filed  y (30) days will be considered timely.  THS from the mailing date of this communication.  ANDONED '35 U.S.C. § 133).
atus		
1) Responsive to communication(s) filed on		
2a) ☐ This action is FINAL. 2b) 区	This action is non-final.	dia a sa sha marita ia
Since this application is in condition for a	llowance except for formal matt	ers, prosecution as to the ments is
closed in accordance with the practice un	nder Ex parte Quayle, 1935 C.D	i. 11, 453 O.G. 213.
sposition of Claims		
4) Claim(s) 45-71 is/are pending in the appl	lication.	
4a) Of the above claim(s) is/are wi	ithdrawn from consideration.	
5)⊠ Claim(s) 45-69 is/are allowed.		
6) Claim(s) <u>70 and 71</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction	and/or election requirement.	*
pplication Papers		
9)☐ The specification is objected to by the Ex	aminer.	
10) The drawing(s) filed on is/are: a)	☐ accepted or b)☐ objected to	by the Examiner.
Applicant may not request that any objection	to the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the  11) The oath or declaration is objected to by	correction is required if the drawing the Examiner. Note the attache	g(s) is objected to. See 37 CFR 1.121(d d Office Action or form PTO-152.
riority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for t	foreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:	,	
1. Certified copies of the priority doc	cuments have been received.	
2 Certified copies of the priority doc	cuments have been received in	Application No
3.☐ Copies of the certified copies of the	he priority documents have been	n received in this National Stage
application from the International	Bureau (PCT Rule 17.2(a)).	
* See the attached detailed Office action for	a list of the cortified conies no	t received

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. \_\_\_\_\_.

Attachment(s)

1) Notice of References Cited (PTO-892)

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#### DETAILED ACTION

The Amendment filed January 4, 2005 has been received, entered into the record, and carefully considered. The following information provided in the amendment affects the instant application by:

Claims 45, 59, 63-65, and 68-69 have been amended.

Claims 72-89 have been canceled.

Remarks drawn to rejections of Office Action mailed October 5, 2004 include:

112 2<sup>nd</sup> paragraph rejections: which have been overcome by applicant's amendments and have been withdrawn.

102(b) rejection: which have been overcome in part by applicant's amendments and have been withdrawn in part.

103(a) rejection: which have been overcome by applicant's amendments and have been withdrawn.

An action on the merits of claims 45-71 is contained herein below. The text of those sections of Title 35, US Code which are not included in this action can be found in a prior Office action.

## Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e)

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has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on February 4, 2005 has been entered.

## Claim Rejections - 35 USC § 102

Claims 70 and 71 are rejected under 35 U.S.C. 102(b) as being anticipated by Hawkins (US Patent 5,705,628) for the same reasons as claims 25-26 were in the previous office action.

Claim 70 is drawn to a kit for binding nucleic acids to a solid phase comprising, a binding buffer which contains a salt and polyethylene glycol, and a solid phase which has hydrophobic and hydrophilic groups on its surface. Claim 71 adds an elution buffer to detach the nucleic acid from the surface and a washing buffer to separate the impurities to the kit of claim 70.

Hawkins teaches a kit for binding nucleic acids to a solid phase comprising the magnetic microparticles having hydrophobic and hydrophilic moieties and a binding buffer. Moreover, Hawkins teaches there can be additionally an elution buffer to detach the nucleic acid from the solid phase and a wash buffer for removing the impurities (column 8, line 53 – column 9, line 15).

Applicant's amended their claims to state that the hydrophobic groups bind nucleic acids and hydrophilic groups prevent agglomeration. However, it is noted that these are properties which are inherent to the compounds used, and since the particles of Hawkins comprise both hydrophobic and hydrophilic moieties, they must have inherently had those properties associated therewith. The kits of Hawkins are seen to anticipate the kits of the instant application.

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#### Allowable Subject Matter

Claims 45-69 are allowed. The following is a statement of reasons for the indication of allowable subject matter: the prior art is not seen to teach or fairly suggest a method of binding nucleic acids to a solid phase wherein the solid phase comprises hydrophobic and hydrophilic moieties wherein nucleic acids are bound to the hydrophobic moieties and the hydrophilic moieties prevent agglomeration. The closest prior art is seen to be Hawkins et al., however Hawkins teaches the nucleic acids bind to the carboxyl moieties, which are hydrophilic.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Traviss C. McIntosh whose telephone number is 571-272-0657. The examiner can normally be reached on M-F 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James O. Wilson can be reached on 571-272-0661. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Traviss C. McIntosh III May 2, 2005 /James O. Wilson

Supervisory Patent Examiner

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